

## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

- 1 1. (Currently Amended) A microphone comprising:
  - 2 a) a microphone enclosure;
  - 3 a) a-b) a plurality of electrical contacts for interfacing with an external device;
  - 4 and
  - 5 b) a-c) a circuit within the microphone enclosure, connected to at least one
  - 6 electrical contact, which transmits data about the microphone to the external
  - 7 device through the at least one electrical contact, wherein the data identifies a
  - 8 type of the microphone.
- 1 2. (Original) The microphone of claim 1 where the circuit forces the voltage
- 2 potential between the at least one electrical contact and another of the plurality of
- 3 electrical contacts to be zero.
- 1 3. (Original) The microphone of claim 1 where the circuit forces the voltage
- 2 potential between the at least one electrical contact and a ground electrical contact
- 3 to be zero.
- 1 4. (Original) The microphone of claim 1 where the circuit includes a resistor
- 2 having a first and a second terminal, the first resistor terminal being connected to
- 3 the at least one electrical contact, the second resistor terminal connected to
- 4 another of the plurality of electrical contacts.

1    5.     (Original) The microphone of claim 1 where the circuit includes a  
2    capacitor having a first and a second terminal, the first capacitor terminal being  
3    connected to the at least one electrical contact, the second capacitor terminal  
4    connected to another of the plurality of electrical contacts.

1    6.     (Original) The microphone of claim 1 where the circuit includes an  
2    inductor having a first and a second terminal, the first inductor terminal being  
3    connected to the at least one electrical contact, the second inductor terminal  
4    connected to another of the plurality of electrical contacts.

1    7.     (Original) The microphone of claim 1 where the circuit includes a  
2    programmable read only memory storing data that identifies at least one of the  
3    following: the microphone manufacturer, the microphone manufacture date, the  
4    microphone model number, the microphone serial number, the microphone  
5    frequency response, whether the microphone uses phantom power, the desired  
6    pre-amplifier gain, and the microphone dynamic response.

1    8.     (Original) The microphone of claim 1 where the circuit includes a serial  
2    programmable read only memory storing data that identifies at least one of the  
3    following: the microphone manufacturer, the microphone manufacture date, the  
4    microphone model number, the microphone serial number, the microphone  
5    frequency response, whether the microphone uses phantom power, the desired  
6    pre-amplifier gain, or the microphone dynamic response.

1    9.     (Original) The microphone of claim 1 where the circuit includes a serial  
2    electrically erasable programmable read only memory storing data that identifies  
3    at least one of the following: the microphone manufacturer, the microphone  
4    manufacture date, the microphone model number, the microphone serial number,

5       the microphone frequency response, whether the microphone uses phantom  
6       power, the desired pre-amplifier gain, or the microphone dynamic response.

1       10.      (Currently Amended) An interface unit comprising:  
2           a) a first connector having a plurality of electrical contacts for interfacing  
3           with a microphone, wherein the microphone transmits data about the  
4           microphone to the interface unit through the first connector, wherein the data  
5           identifies a type of the microphone; and  
6           b) a second connector having a plurality of electrical contacts for interfacing  
7           with a computer system via a digital bus;  
8           wherein the interface unit is operable to obtain data from the microphone,  
9           about the microphone; and  
10          wherein the interface unit is operable to transmit the data to the computer  
11          system.

1       11.      (Original) The interface unit of claim 10 further comprising:  
2           c) an amplifier for amplifying an analog signal received from the  
3           microphone;  
4           d) an analog-to-digital converter, coupled to the amplifier;  
5           e) a buffer, coupled to the analog-to-digital converter;  
6           f) a bus interface coupled to the buffer; and  
7           g) an I/O port for communicating with a computer system.

1       12.      (Original) The interface unit of claim 11, wherein the analog-to-digital  
2       converter is also coupled to a microphone bias circuit.

1       13.      (Original) The interface unit of claim 11, wherein the analog-to-digital  
2       converter is also coupled to a microphone bias circuit that contains a resistor

3 having a first terminal and a second terminal, the first resistor terminal connected  
4 to at least one of the first connector's plurality of electrical contacts.

1 14. (Original) The interface unit of claim 11, wherein the first connector's  
2 plurality of electrical contacts includes a first electrical contact and a second  
3 electrical contact;  
4 wherein the bus interface is coupled to the first electrical contact, which contains  
5 a serial clock signal; and  
6 wherein the bus interface is coupled to the second electrical contact, which  
7 contains serial data signals.

1 15. (Original) The interface unit of claim 11, further comprising a switch that  
2 is configured to identify a physical parameter of a microphone.

1 16. (Original) The interface unit of claim 15, wherein the switch is coupled to  
2 the bus interface.

1 17. (Original) The bus interface of claim 10 further comprising a third  
2 connector for interfacing with a second microphone.

1 18. (Original) The interface unit of claim 10 further comprising a third  
2 connector for interfacing with another interface unit.

1 19. (Currently Amended) A microphone comprising:  
2 a) a connector having a plurality of electrical contacts for interfacing with a  
3 computer system via a digital bus; and  
4 b) wherein the microphone is operable to transmit data about the microphone  
5 to the computer system via the connector, wherein the microphone includes  
6 data about the microphonethe data identifies a type of the microphone.

1    20. (Original) The microphone of claim 19 further comprising a  
2    programmable read only memory storing data that identifies at least one of the  
3    following: the microphone manufacturer, the microphone manufacture date, the  
4    microphone model number, the microphone serial number, the microphone  
5    frequency response, whether the microphone uses phantom power, the desired  
6    pre-amplifier gain, and the microphone dynamic response.

1    21. (Original) The microphone of claim 19 further comprising a serial  
2    programmable read only memory storing data that identifies at least one of the  
3    following: the microphone manufacturer, the microphone manufacture date, the  
4    microphone model number, the microphone serial number, the microphone  
5    frequency response, whether the microphone uses phantom power, the desired  
6    pre-amplifier gain, or the microphone dynamic response.

1    22. (Original) The microphone of claim 19 further comprising a serial  
2    electrically erasable programmable read only memory storing data that identifies  
3    at least one of the following: the microphone manufacturer, the microphone  
4    manufacture date, the microphone model number, the microphone serial number,  
5    the microphone frequency response, whether the microphone uses phantom  
6    power, the desired pre-amplifier gain, or the microphone dynamic response.

1    23. (Currently Amended) A method of transferring data to a computer system,  
2    the method comprising:  
3      a) interfacing a microphone with an interface unit, wherein the microphone  
4      transmits data about the microphone to the interface unit, wherein the data  
5      identifies a type of the microphone;  
6      b) interfacing the interface unit with a computer system; and

7       c) transferring data about the microphone from the interface unit to the  
8       computer system.

1     24. (Original) The method of claim 23, further comprising modifying at least  
2     one setting in the computer system based at least in part on the transferred data.

1     25. (Original) The method of claim 23, further comprising modifying at least  
2     one setting in the interface unit based at least in part on the transferred data.

1     26. (Currently Amended) A method of transferring data to a computer system,  
2     the method comprising:  
3       a) interfacing a microphone with a computer system, wherein the  
4       microphone transmits data about the microphone to the interface unit, wherein  
5       the data identifies a type of the microphone; and  
6       b) transmitting data about the microphone, from the microphone to the  
7       computer system.

1     27. (Original) The method of claim 26, further comprising modifying at least  
2     one setting in the computer system based at least in part on the transferred data.

1     28. (Original) The method of claim 26, further comprising modifying at least  
2     one setting in the microphone based at least in part on the transferred data.

1     29. (Previously Presented) The microphone of claim of 1, wherein the data  
2     about the microphone identifies at least one of the following: the microphone  
3     manufacturer, the microphone manufacture date, the microphone model number,  
4     the microphone serial number, the microphone frequency response, whether the  
5     microphone uses phantom power, the desired pre-amplifier gain, and the  
6     microphone dynamic response.

1   30.   (Previously Presented) The interface unit of claim 10, wherein the data  
2   about the microphone is related to at least one of the following: the microphone  
3   manufacturer, the microphone manufacture date, the microphone model number,  
4   the microphone serial number, the microphone frequency response, whether the  
5   microphone uses phantom power, the desired pre-amplifier gain, and the  
6   microphone dynamic response.

1   31.   (Previously Presented) The microphone of claim 19, wherein the data  
2   transmitted is related to at least one of the following: the microphone  
3   manufacturer, the microphone manufacture date, the microphone model number,  
4   the microphone serial number, the microphone frequency response, whether the  
5   microphone uses phantom power, the desired pre-amplifier gain, and the  
6   microphone dynamic response.

1   32.   (Previously Presented) The method of claim 23, wherein the data about  
2   the microphone is related to at least one of the following: the microphone  
3   manufacturer, the microphone manufacture date, the microphone model number,  
4   the microphone serial number, the microphone frequency response, whether the  
5   microphone uses phantom power, the desired pre-amplifier gain, and the  
6   microphone dynamic response.

1   33.   (Previously Presented) The method of claim 26, wherein the data about  
2   the microphone is related to at least one of the following: the microphone  
3   manufacturer, the microphone manufacture date, the microphone model number,  
4   the microphone serial number, the microphone frequency response, whether the  
5   microphone uses phantom power, the desired pre-amplifier gain, and the  
6   microphone dynamic response.